CURRICULUM VITAE

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Education:

1971	B.A., Zoology, University of Montana
1976	Ph.D., Physiology, Michigan State University

Employment and Training:

Uniformed Services University of the Health Sciences (USUHS)

1978 - 1982	Assistant Professor, Department of Physiology
1982 - 1995	Associate Professor, Department of Physiology
1990 - 1995	Associate Professor, Program in Neuroscience
1995 - present	Professor, Department of Physiology
1996 - present	Professor, Program in Neuroscience
1998 - present	Vice Chairman, Department of Anatomy, Physiology and Genetics

Outside of USUHS

1971 - 1976	Research Teaching Assistant, Department of Physiology, Michigan State University, East Lansing, MI
1976 - 1978	Research Associate, under Dr. Seymour Reichlin, M.D., Ph.D., Endocrine Division, Department of Medicine, Tufts New England Medical Center Hospital, Boston, MA
1976 - 1978	Research Associate, under Dr. Richard Wurtman, M.D., Laboratory for Neuroendocrine Regulation, Department of Nutrition and Food Science, Massachusetts Institute of Technology, Cambridge, MA

1987 - 1988	Visiting Professor, Division of Molecular Medicine, Department of Medicine, Tufts New England Medical Center Hospital, Boston, MA (sabbatical with Dr. Richard Goodman, M.D., Ph.D., six months).
1993	Visiting Professor, Department of Neuroscience, Johns Hopkins University, School of Medicine Baltimore, MD (sabbatical with E. B. Eipper and R. E. Mains, six months)
1997 - present	Visiting Scientist, Department of Neuroscience, Johns Hopkins University, School of Medicine, Baltimore, MD

Teaching Experience:

USUHS School of Medicine:

1978 - present	Lecturer in Physiology, *Medical Physiology/ Structure and Function of Organ System*s, course for first year medical students. Director of the section on endocrinology and reproduction (45 - 55 contact hours per year).
1983 - 1987	Lecturer in Biochemistry, *Biochemistry* course for first year students, 2 contact hours per year
1987 - 1994	*Introduction to Clinical Medicine*, Building Bridges Project, one of two faculty coordinators and a small group facilitator (this program provides patient-based learning experiences for first year medical students)
1986 - present	*National Board Review Sessions* for second year students
1992 - 1997	Lecturer in the summer *Premetriculation Program*, 3 contact hours per year (program is designed to strengthen the academic foundation of selected incoming medical students)

USUHS Graduate School of Nursing:

1995 - present	Lecturer in Physiology, *Medical Physiology Course*, director, section on Endocrinology and Reproduction, 9-10 contact hours per year.

USUHS Program in Graduate Education:

Neuroscience Program:

1989 - present	Lecturer in the Interdisciplinary Neuroscience course, *Introduction to Neuroscience*, 2 contract hour per year
1995 - present	Lecturer in Advanced Topics and Techniques in Neuroscience - 3 contact hours, Grad. Ed., Introduction of Proteomics into the USUHS graduate curriculum
1989 - 1990	Co-director of USUHS interdisciplinary course in *Cellular and Molecular Biology*
1994 and 1997	Co-director, *Introduction to Neuroscience*, core course of the USUHS Program in Neuroscience
1997 - 2000	Executive Committee, *Program in Neuroscience*

Molecular and Cell Biology Program:

2005 - present	Molecular and Cell Biology, Advanced Topics - Proteomics, 2 contact hours

Physiology Program:

1978 - 1995	Lecturer in Physiology, *Advanced Endocrinology* course for graduate students, 5-7 contact hours as offered

Postgraduate Medical Education:

1993 - 1994	*National Board Review Sessions* for residents in neurology

Outside of USUHS:

1973 - 1974	Lab Instructor in *Comparative Physiology*, Department of Physiology, Michigan State University, East Lansing, MI.
1977 - 1978	Lecturer in *Endocrinology*, Harvard University- Massachusetts Institute of Technology jointly sponsored Health Sciences and Technology Program course in Endocrinology for M.D./Ph.D. students (10 contact hours per year).

Publications:

Chapters:

1. Jackson, I.M.D and G.P. Mueller, Neuroendocrine Interrelationships. In, Biological Regulation and Development, Vol. 3A (R.F. Goldberger and K.R. Yamamoto, eds.) Plenum Press, New York, pp. 127-202, 1982.

2. Cox, B.M. and G.P. Mueller, Endogenous Opioids. In, Principles and Practice of Endocrinology and Metabolism (K.L. Becker, J.P. Bilezikian, W.J. Bremmer, W. Hung, C.I. Kand, D.L. Loriaux, R.W. Revar, G.L. Robertson and L. Wartofsky, eds.) J.B. Lippincott Co., Philadelphia, PA, first edition, pp 1292-1296, 1990; second edition, pp. 1430-1435, 1995; third edition, pp. 1556-1563, 2001.

3. Mueller, G.M. and W.J. Driscoll, α-Amidated Peptides: Approaches for Analysis. In, Posttranslational Modifications of Proteins: Tools for Functional Proteomics; Methods in Molecular Biology, Vol 194, pp 241-257 8. Kannicht, ed) Humana Press, Inc. Totowa, NJ, 2002

4. Mueller, G.P. and Driscoll, W.J. α-Amidated Peptides: Approaches for Analysis, in Posttranslational Modifications of Proteins: Tools for Functional Proteomics, Methods in Molecular Biology, under revision for 2nd edition.

Monographs:

1. McBroom, M.J., M.S. Rinaudo, D.L. Clough, G.P. Mueller and F.J. Haddy: Taurine and NaCl: Untoward effects and a possible role for the heart. In, Taurine and the Heart (H. Iwata, J.B. Lombardi and T. Segawa, eds.) Kluwer Academic Publishers, Boston, Ma, pp 99-115, 1989.

2. Lavigne GJ, WR Millington and GP Mueller: L-364,718 and lorglumide block the cholecystokinin-stimulated release of β-endorphin from the anterior pituitary. In, The Neuropeptide Cholecystokinin (CCK). J. Hughes, G. Dockray and G. Wooddruff eds.) pp 143-149, 1989.

Papers:

1. Mueller, G.P., H.J. Chen, and J. Meites: In vivo stimulation of prolactin release in the rat by synthetic TRH. Proc. Soc. Exp. Biol. Med. 144: 613-615, 1973.

2. Chen, H.J., G.P. Mueller, and J. Meites: Effects of L-dopa and somatostatin on the suckling-induced release of prolactin and GH. Endo. Res. Comm. 1: 283-291, 1974.

3. Mueller, G.P., H.T. Chen, J.A. Dibbet, J.H. Chen, and J. Meites: Effects of warm and cold temperatures on the release of TSH, GH and prolactin in the rat. Proc. Soc. Exp. Biol. Med. 147: 698-700, 1974.

4. Jacoby, J.H., G. Mueller, and R.J. Wurtman: Thyroid state and monoamine metabolism. Endocrinology 97: 1332-1335, 1975.

5. Mueller, G.P., C.P. Twohy, H.T. Chen, J.P. Advis, and J. Meites: Effects of L-tryptophan and restraint stress on hypothalamic and brain serotonin turnover and pituitary TSH and prolactin release in rats. Life Sci. 18: 715-724, 1976.

6. Mueller, G.P., J. Simpkins, J. Meites, and K.E. Moore: Differential effects of dopamine agonists and haloperidol on release of prolactin thyroid stimulating hormone, growth hormone and luteinizing hormone in rat. Neuroendocrinology 20: 121-135, 1976.

7. Simpkins, J.W., G.P. Mueller, H.J. Huang, and J. Meites: Evidence for depressed catecholamine and enhanced serotonin metabolism in aging rats: possible relation to gonadotropin secretion. Endocrinology 100: 1672-1678, 1977.

8. Chen, H.T., J.W. Simpkins, G.P. Mueller, and J. Meites: Effects of pargyline on hypothalamic biogenic amines and serum prolactin (PRL), LH and TSH in male rats. Life Sci. 21: 533-542, 1977.

9. Advis, J.P., T.R. Hall, C.A. Hodson, G.P. Mueller, and J. Meites: Temporal relationship and role of dopamine in "short-loop" feedback of prolactin. Proc. Soc. Exp. Biol. Med. 115: 576-570, 1977.

10. Grudelsky, G.A., J. Simpkins, G.P. Mueller, J. Meites, and K.E. Moore: Selective actions of prolactin on catecholamine turnover in the hypothalamus and serum LH and FSH. Neuroendocrinology 22: 209-215, 1977.

11. Meites, J., G.P. Mueller, J.W. Simpkins, C.A. Hodson, and K.E. Moore: Effects of piribedil and other dopamine agonists on secretion of anterior pituitary hormones. Psychologie Medicale 11: 255-262, 1979.

12. Mueller, G.P., L. Alpert, S. Reichlin and I.M.D. Jackson: Thyrotropin-releasing hormone and serotonin secretion from frog skin are stimulated by norepinephrine. Endocrinology 106: 1-4, 1980.

13. Mueller, G.P.: Attenuated pituitary beta-endorphin release in estrogen treated rats. Proc. Soc. Exp. Biol. Med. 165: 75-81, 1980.

14. Deeter, W.T. III and G.P. Mueller: Differential effects of warm and cold temperature on blood levels of beta-endorphin and prolactin in rats. Proc. Soc. Exp. Biol. Med. 168: 369-372, 1981.

15. Pettibone, D.J. and G.P. Mueller: Alpha adrenergic stimulation by clonidine increases plasma concentrations of immunoreactive beta-endorphin in rats. Endocrinology 109: 798-802, 1981.

16. Pettibone, D.J. and G.P. Mueller: Clonidine releases immunoreactive beta-endorphin from rat pars distalis. Brain Research 221: 409-414, 1981.

17. Sapun, D.I., J.M. Farah, Jr., and G.P. Mueller: Evidence that a serotonergic mechanism stimulates the secretion of pituitary beta-endorphin-like immunoreactivity in the rat. Endocrinology 109: 421-426, 1981.

18. Mueller, G.P.: Beta-endorphin immunoreactivity in rat plasma: variations in response to different physical stimuli. Life Sci. 29: 1669-1674, 1981.

19. Pettibone, D.J. and G.P. Mueller: Evidence for independent secretion of beta-endorphin immunoreactivity from rat pars distalis in vivo. Endocrinology 110: 469-473, 1982.

20. Farah, J.M., Jr., D.I. Sapun, and G.P. Mueller: Dopaminergic inhibition of pituitary beta-endorphin-like immunoreactivity secretion in the rat. Endocrinology 110: 657-659, 1982.

21. Pettibone, D.J. and G.P. Mueller: Adrenergic control of immunoreactive beta-endorphin release from the pituitary of the rat: in vitro and in vivo studies. J. Pharmacol. Exp. Ther. 222: 103-108, 1982.

22. Olschowka, J.A., T.L. O'Donohue, G.P. Mueller, and D.M. Jacobowitz: The distribution of corticotropin releasing factor-like immunoreactive neurons in rat brain. Peptides 3: 995-1015, 1982.

23. Sapun-Malcolm, D., J.M. Farah, Jr. and G.P. Mueller: Evidence for serotonergic stimulation of pituitary beta endorphin release: preferential release from the anterior lobe in vivo. Life Sci. 33: 95-102, 1983.

24. Mickely, G.A., K.E. Stevens, G.H. Moore, W. Deere, G.A. White, G.L. Gibbs, and G.P. Mueller: Ionizing radiation alters beta-endorphin-like immunoreactivity in brain but not blood. Pharmacol. Biochem. Behav. 19: 979-983, 1983.

25. Hargreaves, K.M., R.A. Dionne and G.P. Mueller: Plasma beta-endorphin like immunoreactivity, pain and anxiety following administration of placebo in oral surgery patients. J. Dent. Res. 62: 1170-1173, 1983.

26. Pettibone, D.J. and G.P. Mueller: Differential effects of adrenergic agents on plasma levels of immunoreactive beta-endorphin and alpha melanotropin in rats. Proc. Soc. Exp. Biol. Med. 176: 168-174, 1984.

27. Millington, W.R., G.P. Mueller, and T.L. O'Donohue: Regional heterogeneity in the ratio of alpha-MSH:beta-endorphin in rat brain. Peptides 5: 841-843, 1984.

28. Maiewski, S., S. Muldoon and G.P. Mueller: Anesthesia and stimulation of beta-endorphin release in rats. Proc. Soc. Exp. Biol. Med. 176: 268-275, 1984.

29. Dionne, R.A., G.P. Mueller, R.F. Young, R.R. Greenberg, K.M. Hargreaves, R. Gracely and R. Dubner: Contrast medium causes apparent increases in beta-endorphin levels in human cerebrospinal fluid following brain stimulation. Pain 20: 313-321, 1984.

30. Farah, J.M., Jr., D. Sapun-Malcolm and G.P. Mueller: Apomorphine selectively stimulates opiocortin hormone release from the pars distalis in rats. Eur. J. Pharm. 107: 385-388, 1985.

31. Mueller, G.P., D.J. Pettibone, J.M. Farah, Jr. and D. Sapun-Malcolm: Glucocorticoid inhibition of immunoreactive beta-endorphin release from the anterior lobe of the rat pituitary: In vitro and in vivo studies. Proc. Soc. Exp. Biol. Med. 179: 338-347, 1985.

32. Maiewski, S.F., P. Larcheid, J.M. Cook and G.P. Mueller: Evidence that a benzodiazepine receptor mechanism regulates the secretion of pituitary beta-endorphin in rats. Endocrinology 117: 474-480, 1985.

33. Kiss, J.Z., E. Mezey, M.D. Cassell, T.H. Williams, G.P. Mueller and T.L. O'Donohue: Topographical distribution of pro-opiomelanocortin-derived peptides (ACTH/beta-endorphin/alpha-MSH) in the rat median eminence. Brain Res. 329: 169-176, 1985.

34. Sapun-Malcolm, D., J.M. Farah, Jr. and G.P. Mueller: Serotonin and dopamine independently regulate pituitary beta-endorphin release in vivo. Neuroendocrinology 42: 191-196, 1986.

35. Millington, W.R., M.A. Blum, R. Knight, G.P. Mueller, J.L. Roberts and T.L. O'Donohue: A diurnal rhythm in pro-opiomelanocortin MRNA that varies concomitantly with the content and secretion of beta-endorphin in the intermediate pituitary. Endocrinology 118:829-834, 1986.

36. Millington, W.R., S. Maiewski, T.L. O'Donohue and G.P. Mueller: Long term haloperidol treatment elevates beta-endorphin levels in the intermediate pituitary but not in rat brain. Neuropeptides 6: 365-372, 1985.

37. Dorval, E.D., G.P. Mueller, R.R. Eng, A. Durakovic, J.J. Conklin and A. Dubois: Effect of ionizing radiation on gastric secretion and gastric motility in monkeys. Gastroenterology 89: 374-380, 1985.

38. Millington, W.R., T.L. O'Donohue, M.C. Chappell, J.L. Roberts, and G.P. Mueller: Coordinate regulation of peptide acetyltransferase activity and proopiomelanocortin gene expression in the intermediate lobe of the rat pituitary. Endocrinology 118: 2024-2033, 1986.

39. Hargreaves, K.M., R.A. Dionne, G.P. Mueller, D.S. Goldstein and R. Dubner. Naloxone, fentanyl and diazepam modify plasma beta-endorphin levels during surgery. Clinical Pharmacology and Therapeutics 40: 165-171, 1986.

40. Hargreaves, K.M., G.P. Mueller, R. Dubner, D.S. Goldstein, and R.A. Dionne. Corticotropin releasing factor (CRF) produces analgesia in humans and rats. Brain Research 422: 154-157, 1987.

41. Millington, W.R., T.L. O'Donohue, and G.P. Mueller: Dopaminergic agents selectively alter the post-translational processing of beta-endorphin in the intermediate pituitary of the rat. J. Pharmacol. Exp. Ther. 243: 160-169, 1987.

42. Hargreaves, K., E. Schmidt, G. Mueller and R. Dionne: Dexamethasone alters plasma levels of beta-endorphin and post-operative pain. Clin. Pharm. Ther. 42: 601-607, 1987.

43. Dionne R, Mueller GP, Schmidt E, and Hargreaves KM: Effects of dexamethasone (DEX) on post-operative pain and plasma levels of immunoreactive beta-endorphin (iβ-End). Clin Pharm Ther 41: 180, 1987.

44. Millington, WR, Dybdal, NO., Dawson. R. Manzini, C., and Mueller, GP.: Equine Cushing's disease: Differential regulation of beta-endorphin processing in tumors of the intermediate lobe. Endocrinology 123: 1598-1604, 1988.

45. Pamnani, M.B., G.P. Mueller, R.D. Ghai and F.J. Haddy: Role of atrial natriuretic factor in regulation of blood pressure in normotensive rats having reduced renal mass. Proc. Soc. Exp. Biol. Med 189: 297-303, 1989.

46. Bruhn, T.O., P.A. Tresco, G.P. Mueller and I.M.D. Jackson: Beta-endorphin mediates clonidine stimulated growth hormone release. Neuroendocrinology: 460-463, 1989.

47. Farah, J.D., Jr., and Mueller, G.P.: A D-2 dopaminergic agonist stimulates secretion of anterior pituitary immunoreactive beta-endorphin in rats. Neuroendocrinology 50: 26-32, 1990.

48. Hargreaves, K.M., C.M. Flores, R.A. Dionne and G.P. Mueller: The role of pituitary beta-endorphin in mediating corticotropin releasing factor (CRF)-induced antinociception. Amer. J. Physiol. 258: E235-E244, 1990.

49. Millington, W.R., N.O. Dybdal, G.P. Mueller and B.M. Chronwall: AlphaBacetylation and C-terminal shortening of beta-endorphin in the anterior lobe of the horse pituitary. J. Comp. Physiol. 85: 297-307, 1992.

50. Lavigne, G.J., W.R. Millington and G.P. Mueller: The CCK-A and CCK-B antagonists, devazepide and L-365,260, enhance morphine antinociception only in non-acclimated rats. Neuropeptides 21: 119-129, 1992.

51. Millington, W.R., G.P. Mueller and G.J. Lavigne: Opposing actions of cholecystokinin type A and B receptor antagonists on cholecystokinin-8 stimulated β-endorphin secretion from the rat pituitary. J. Pharmacol. Exp. Ther. 261: 454-461, 1992.

52. Hammer, G.D., G.P. Mueller, B. Liu, J.S. Petrides and M.J. Low: Ectopic corticotropin-releasing hormone produced by a transfected cell line chronically activates the pituitary-adrenal axis in transkaryotic rats. Endocrinology 130: 1975-1985, 1992.

53. Ford, T.A. and G.P Mueller: Induction of peptidylglycine alpha-hydroxylating monooxygenase activity by nerve growth factor in PC12 cells. Journal of Molecular Neuroscience 4: 97-105, 1993.

54. Mueller, G.P., Husten, E.J., Mains, R.E. and Eipper, B.A.: Peptide α-Amidation and Peptidylglycine α-Hydroxylating Monooxygenase: Control by Disulfiram. Molecular Pharmacology 44: 972-980, 1993.

55. Petrides, J.S., G.P. Mueller, K.T. Kalogeras, G.P. Chrousos and P.A. Deuster: Exercise-induced activation of the hypothalamic-pituitary-adrenal axis: differential sensitivity to glucocorticoid suppression. Journal of Endocrinology and Metabolism 79: 377-383, 1994.

56. Bloomquist, B.T., D.N. Darlington, G.P. Mueller, R.E. Mains and B.A. Eipper: RESP18: A short-lived, novel glucocorticoid regulated endocrine protein. Endocrinology 135: 2714-2722, 1994.

57. Bishop, J.F., G.P. Mueller and M.M. Mouradian: Alternate 5' exons in the rat brain-derived neurotropic factor gene : differential patterns of expression across brain regions. Mol. Brain Res. 26: 225-232, 1994.

58. Mueller, G.P. and M.J. Altarac: Peptide α-amidation: differential regulation by disulfiram and its metabolite, diethyldithiocarbamate. Neuropeptides 28: 333-340, 1995.

59. Rahman, M.A., N.E. Grunberg and G.P. Mueller. Disulfiram causes sustained behavioral and biochemical effects in rats. Pharmacology Biochemistry and Behavior 56: 409-415, 1997.

60. Petrides, J.S., P.W. Gold, G.P. Mueller, A. Singh, C. Stratakis, G.P. Chrousos and P.A. Deuster. Marked Differences in functioning of the hypothalamic-pituitary-adrenal Axis between groups of men. Journal of Applied Physiology 82(6): 1979-1988, 1997.

61. Petrides, J.S., P.A. Deuster and G.P. Mueller. Lactic Acid Does Not Directly Activate Hypothalamic-Pituitary Corticotroph Function. Proc. Soc Exper. Biol. Med. 220: 100-105, 1999.

62. Bishop, J.F., G. Joshi, G.P. Mueller and M.M. Mouradian. Localization of putative calcium-responsive regions in the rat BDNF gene. Molecular Brain Research 50: 154-164, 1997.

63. Mueller, S.A., Driscoll, W.J. and Mueller, G.P. Captopril inhibits peptidylglycine-α-hydroxylating monooxygenase: implications for therapeutic effects. Pharmacology 58: 270-280, 1999.

64. Driscoll, W.J., S.A. Mueller, B.A. Eipper and G.P. Mueller. Differential Regulation of Peptide α-Amidation by Dexamethasone and Disulfiram. Molecular Pharmacology 55: 1067-1076, 1999.

65. Mueller, G.P., W. J. Driscoll and B.A. Eipper. In vivo inhibition of peptidylglycine-α-hydroxylating monooxygenase by 4-phenyl-3-butenoic acid. J. Pharmacol. Exper. Thera. 290: 1331-1336, 1999.

66. Driscoll, W.J., H.M. Fales, B.A. Eipper and G.P. Mueller. Peptidylglycine-α-hydroxylating monooxygenase generates two hydroxylated products from its mechanism-based suicide substrate analog 4-phenyl-3-butenoic acid. Biochemistry 39: 8007-8016, 2000.

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72. Torosyan Y., Dobi A., Naga Sh., Mezhevaya K., Glasman M., Norris Ch., Jiang G., Mueller G., Pollard H. and Srivastava M. Distinct effects of ANXA7 and p53 on arachidonate lipoxygenation in prostate cancer cells involve 5-LOX transcription Cancer Research 66: 9609-16, 2006.

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